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Product datasheet for PH300913

NEIL2 (NM_145043) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NEIL2 MS Standard C13 and N15-labeled recombinant protein (NP_659480)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200913
Predicted MW:	36.8 kDa
Protein Sequence:	>RC200913 protein sequence Red=Cloning site Green=Tags(s) MPEGPLVRKFHHLVSPFVGQQVVKTGGSSKKLQPASLQSLWLQDTQVHGKKLFLRFDLDEEMGPPGSSPT PEPPQKEVQKEGAADPKQVGEPSGQKTLDGSSRSAELVPQGEDDSEYLERDAPAGDAGRWLRVSFGLFGS VWVNDFSRAKKANKRGDWRDPSPRLVLHFGGGGFLAFYNCQLSWSSSPVVTPTCDILSEKFHRGQALEAL GQAQPVCYTLLDQRYFSGLGNIIKNEALYRAGIHPLSLGSVLSASRREVLVDHVVEFSTAWLQGKFQGRP QHTQVYQKEQCPAGHQVMKEAFGPEDGLQRLTWWCPQCQPQLSEEPEQCQFS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_659480
RefSeq Size:	2746
RefSeq ORF:	996
Synonyms:	NEH2; NEI2
Locus ID:	252969

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UniProt ID: Q969S2, A0A024R361

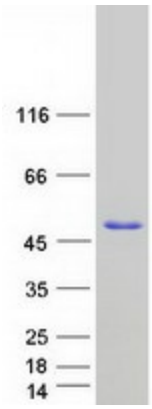
Cytogenetics: 8p23.1

Summary: This gene encodes a member of the Fpg/Nei family of DNA glycosylases. These glycosylases initiate the first step in base excision repair by cleaving oxidatively damaged bases and introducing a DNA strand break via their abasic site lyase activity. This enzyme is primarily associated with DNA repair during transcription and acts prefentially on cytosine-derived lesions, particularly 5-hydroxyuracil and 5-hydroxycytosine. It contains an N-terminal catalytic domain, a hinge region, and a C-terminal DNA-binding domain with helix-two-turn-helix and zinc finger motifs. This enzyme interacts with the X-ray cross complementing factor 1 scaffold protein as part of a multi-protein DNA repair complex. A pseudogene of this gene has been identified. [provided by RefSeq, Mar 2017]

Protein Families: Druggable Genome

Protein Pathways: Base excision repair

Product images:



Coomassie blue staining of purified NEIL2 protein (Cat# [TP300913]). The protein was produced from HEK293T cells transfected with NEIL2 cDNA clone (Cat# [RC200913]) using MegaTran 2.0 (Cat# [TT210002]).